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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: TRIAZOLO[1,5-A]PYRIMIDINES AND PYRAZOLO[1,5-A]PYRIMIDINES USEFUL AS A2A ADENOSIN E RECEPTOR ANTAGONISTS

(57) Abstract: The invention is based on the discovery that compounds of formula (I) possess unexpectedly high affinity for the A2a adenosine receptor, and can be useful as antagonists thereof for preventing and/or treating numerous diseases, including Parkinson's disease. In one embodiment, the invention features a compound of formula (I).

#### INTERNATIONAL SEARCH REPORT

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CLASSIFICATION OF SUBJECT MATTER C 7 C07D487/04 C07D A. CLAS A61K31/53 A61K31/519 A61P25/06 C07D519/00 A61P25/28 A61P25/24 A61P25/16 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) CO7D A61K A61P Documentation searched other than minimum documentation to the extent that such documents are included. In the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ, BIOSIS, CHEM ABS Data, BEILSTEIN Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category 1-9. WO 99/43678 A (ICHIMURA MICHIO; NAKAMURA X AKIKO (JP); SHIMADA JUNICHI (JP); SHIOZAKI) 2 September 1999 (1999-09-02) 22-46 abstract; claims 1-7; table 1 1-9 EP 0 515 107 A (ICI PLC) X 22 - 4625 November 1992 (1992-11-25) claims 1-6; examples 2,3,121-9 "STRUCTURE-ACTIVITY FRANCIS J E ET AL: PROFILE OF A SERIES OF NOVEL 22-46 TRIAZOLOQUINAZOLINĘ ADENOSINE ANTAGONISTS" JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 31, 1988, pages 1014-1020, XP002136848 ISSN: 0022-2623 page 1018, paragraphs 1,2; figures 1,2 Patent family members are listed in annex. Further documents are listed in the continuation of box C. Special categories of cited documents: later document published after the international filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not considered to be of particular relevance cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone \*E\* earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-O' document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. other means document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search il 1. 01. 2005 8 October 2004 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo ni, Fax: (+31–70) 340–3016 Stroeter, T

## INTERNATIONAL SEARCH REPORT

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Patent document cited in search report.		Publication date		Patent family member(s)	Publication date
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## INTERNATIONAL SEARCH REPORT



Box II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This Inte	emational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. χ	Claims Nos.: 35–46 because they relate to subject matter not required to be searched by this Authority, namely:
	Although claims 35 to 46 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
з. 🗌	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Inte	emational Searching Authority found multiple Inventions in this international application, as follows:
•	see additional sheet
,	see additional sheet
A	
1.	As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.
2	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
з	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
	$\cdot$
4. X	No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
	1 (part), 2-9, 22-46 (part)
Remark	on Protest The additional search fees were accompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.

### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1, 22-46 (each partial) and 2-9 (each completé)

compounds (and subject-matter referring to these compounds) of formula (I) with the parental system being a pyrazolopyrimidine or a triazolopyrimidine (B=C,N) which is substituted with A and NR2R3 and which has a "side group" X1-L-X2-Y-R1 wherein X1 is not a bond and L can have any meaning as given in claim 1

2. claims: 1, 33, 35, 37, 39, 41-46 (each partial)

compounds (and subject-matter referring to these compounds) of formula (I) with the parental system being a pyrazolopyrimidine or a triazolopyrimidine (B=C,N) which is substituted with A and NR2R3 and which has a "side group" X1-L-X2-Y-R1 wherein X1 is a bond and L is a carbocycle (phenyl, cycloalkyl)

3. claims: 1, 22-46 (each partial) and 10-21 (each complete)

compounds (and subject-matter referring to these compounds) of formula (I) with the parental system being a pyrazolopyrimidine or a triazolopyrimidine (B=C,N) which is substituted with A and NR2R3 and which has a "side group" X1-L-X2-Y-R1 wherein X1 is a bond and L is a one of the dior triamino linkers depicted in present claim 1, 5th to 12th moiety